# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

**“Jnana Sangama”, BELAGAVI – 590018**



**INTERNSHIP REPORT ON**

# “Mobile Application Development using Flutter”

*Submitted in partial fulfillment of requirements for the course* ***Internship******(21INT68)*** *of Sixth Semester of Bachelor of Engineering in Information Science & Engineering during the academic year 2023-24.*

## Submitted By

**CHAITRESH S (4MH21IS017)**

**Internship Coordinator**

**PROF. VIJAY KUMAR M S**

**Assistant Professor**

**Dept. of ISE**



## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

**MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE**

**Belawadi, S.R.Patna ( T ), Mandya ( D ) – 571477.**

**2023 - 2024**

## MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

**Belawadi, S.R. Patna ( T ), Mandya ( D ) – 571477.**

### DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING



### CERTIFICATE

This is to certify that internship entitled **“Mobile Application Development using Flutter”** a bonafide work carried out by **CHAITHRESH S [4MH21IS017]** in partial fulfilment for the **Internship (21INT68)** prescribed by the Visvesvaraya Technological University, Belagavi during the year 2023-2024 for the sixth semester B.E in Information Science and Engineering. The Internship report has been approved as it satisfies the academic requirements.

Signature of Internship Coordinator Signature of HOD

(**Prof. Vijay Kumar M S**) (**Dr. Sharath Kumar Y H**)

Asst Prof, Dept. of IS&E Professor & Head, Dept. of IS&E

MIT Mysore MIT Mysore

# ACKNOWLEDGEMENT

I sincerely owe My gratitude to all the persons who helped and guided us in completing this Internship.

I am thankful to **Dr. B.G. Naresh Kumar, Principal, Maharaja Institute of** **Technology Mysore**, for having supported me in our academic endeavours.

I am extremely thankful to **Dr. Sharath Kumar Y H, Professor & Head, Department of Information Science and Engineering,** for his valuable support and his timely inquiries into the progress of the work.

I am greatly indebted to our Internship Coordinator **Prof. Vijay Kumar M S, Assistant Professor, Department of Information Science and Engineering,** for the consistent co-operation and support.

I am obliged to all **teaching and non-teaching staff members, Department of Information Science and Engineering,** for the valuable information provided by them in their respective field’s. I am grateful for their co-operation during the period of our Internship.

**CHAITHRESH S (4MH21IS017)**

## ABSTRACT

This internship report highlights the experiences and learnings gained during a month-long internship at RunShaw Technologies Pvt. Ltd. The primary focus of the internship was mobile application development using the Flutter framework, a popular open-source UI toolkit for building natively compiled applications. The internship provided an opportunity to work on real-world projects, enhancing technical skills and understanding of the mobile application development lifecycle.

Key areas of focus included gaining proficiency in Dart programming, collaborating within a team, and implementing industry best practices like Agile methodologies, version control systems (Git), and test-driven development (TDD). The project undertaken involved developing a fully functional, user-friendly mobile application from scratch, covering all phases of the software development lifecycle—requirement gathering, design, implementation, testing, and deployment.

This report provides an overview of the tasks performed, the tools and technologies used, and the outcomes achieved during the internship. The internship not only strengthened technical proficiency in mobile application development but also provided valuable insights into the collaborative processes and industry standards followed at RunShaw Technologies.

## TABLE OF CONTENT

1. INTRODUCTION

1.1 Overview 01

1.2 Internship Objectives

2. COMPANY DETAILS

2.1 Company Overview 08

2.2 Core Services 13

3. PROJECT DETAILS SYSTEM ANALYSIS

3.1 Domain Details 14

3.2 Functional Requirements 16

3.3 Non-Functional Requirements 17

3.4 System Requirements 20

3.5 Requirements Traceability Matrix 22

4. REQUIREMENT ANALYSIS AND DESIGN

4.1 System Analysis 24

4.2 System Architecture Design 26

4.3 User Interface Design 27

5. IMPLEMENTATION

5.1 Methodology & Techniques 29

5.2 Control Flow 31

5.3 Pseudo code or Algorithm 34

CONCLUSION